

6.000 m³ Ethylene/ LPG/ Ammonia/ VCM-Carrier "DL Lotus" for Daelim H&L, Korea

Project Data:

Shipyard:

Sasaki Shipyard, Japan
Sanoyas Hishino Meisho, Japan,

Year of completion: 2008

Classification: BV

TGE's scope:

EPCS-contract, gas handling system & cargo tanks

Vessel:

6.000 m³ semi ref. LEG/LPG carrier, type 2PG

Length o.a.	109,95 m
Beam:	16,80 m
Draught (LPG):	6,80 m
Speed:	14,0 kn



Characteristics of gas plant:

Capacity:	6.000 m ³
Number of cargo tanks:	2
• Material:	5 % Ni Steel
Cargoes:	Ethylene/ LPG/ Ammonia/VCM
Design temperature / pressure:	-104°C/ 6,0 bar g acc. to IMO at sea
Maximum cargo density:	972 kg/m ³
Number of segregations:	2
Cargo manifolds:	2 liquid lines, 8", 6" ANSI 300 lbs flanges 2 vapour lines, 4", 6" ANSI 300 lbs flanges
Loading-/Unloading-rate:	700 m ³ /h
• Deepwell pump:	350 m ³ /h/at 120 m LC
• Booster pump:	350 m ³ /h at 120 m LC
Cargo heating / vaporising equipment:	
• 1 indirect ethylene vaporiser	700 m ³ /h at 15°C sea water temp.
• 1 direct sea water heated LPG-heater / vaporiser	350 m ³ /h Propane – 42°C to 0°C at 15°C sea water, vapour 1.000 m ³ /h

Reliquefaction system:

Cascade / direct cycle
2 x refrigerant compressors (refrigerant R 404 A)

Cargo piping system:

Stainless steel,